

## Features

- 3V excitation, Battery operation available
- Very small surface mountable package, Easy to mount on PCB
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span

## Applications

- Industrial instrumentation
- Pressure switch, Pneumatic device
- Medical device

## Part number for ordering

### X3DM - 025KP D S R

Model  
X3DM

Rated pressure (Pa)

Pressure type

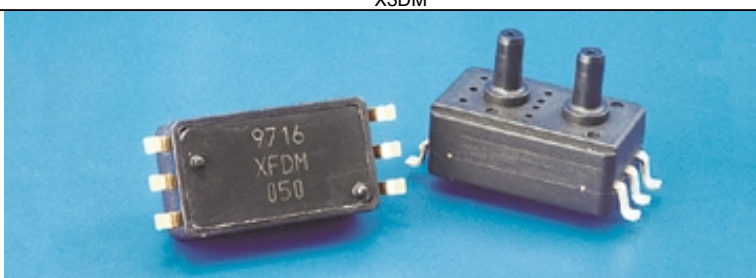
D : Differential

DW : Differential (Bipolar pressure)

Terminal leads direction (See Outline Diagram)

R : 

Terminal leads configuration  
S : Surface mount package

Pressure type	Differential pressure
	X3DM
Model	
Package configuration	Surface mount package

Measurable pressure range (kPa)	Part number for ordering
−100~100	X3DM-100KPDWSR
0~25	X3DM-025KPDSR
0~50	X3DM-050KPDSR
0~100	X3DM-100KPDSR
0~200	X3DM-200KPDSR
0~1000	X3DM-001MPDSR

## Specifications

Model/Rated pressure	100KPDW	025KPD	050KPD	100KPD	200KPD	001MPD	Unit
Recommended operating conditions							
Pressure type	Differential pressure						—
Rated pressure	±100	25	50	100	200	1000	kPa
	±1.020	0.255	0.510	1.020	2.040	10.20	kg/cm <sup>2</sup>
Measurable pressure range	—100～100	0～25	0～50	0～100	0～200	0～1000	kPa
Pressure media	Non-corrosive gas only						—
Excitation voltage	3.0±0.3						VDC
Absolute maximum rating							
Maximum load pressure	Twice of rated pressure					1.5times of rated pressure	
Maximum excitation voltage	6						VDC
Operating temperature	—10～80						℃
Storage temperature	—20～100						℃
Operating humidity	30～80 (No dew condensation)						%RH
Electric performances/characteristics(Excitation voltage Vcc=3.0V constant, Ambient temperature Ta=25℃)							
Current consumption	less than 6						mA
Output impedance	less than 10						Ω
Source current	less than 0.2						mA
Sink current	less than 2						mA
Mechanical response time	2 (For the reference)						msec
Full scale span voltage	1.5						V
Offset voltage※1, 2	0.5±0.0375						V
Full scale span voltage ※1, 2	2.0±0.0375						V
Accuracy ※2	±2.5						%FS/0～50℃

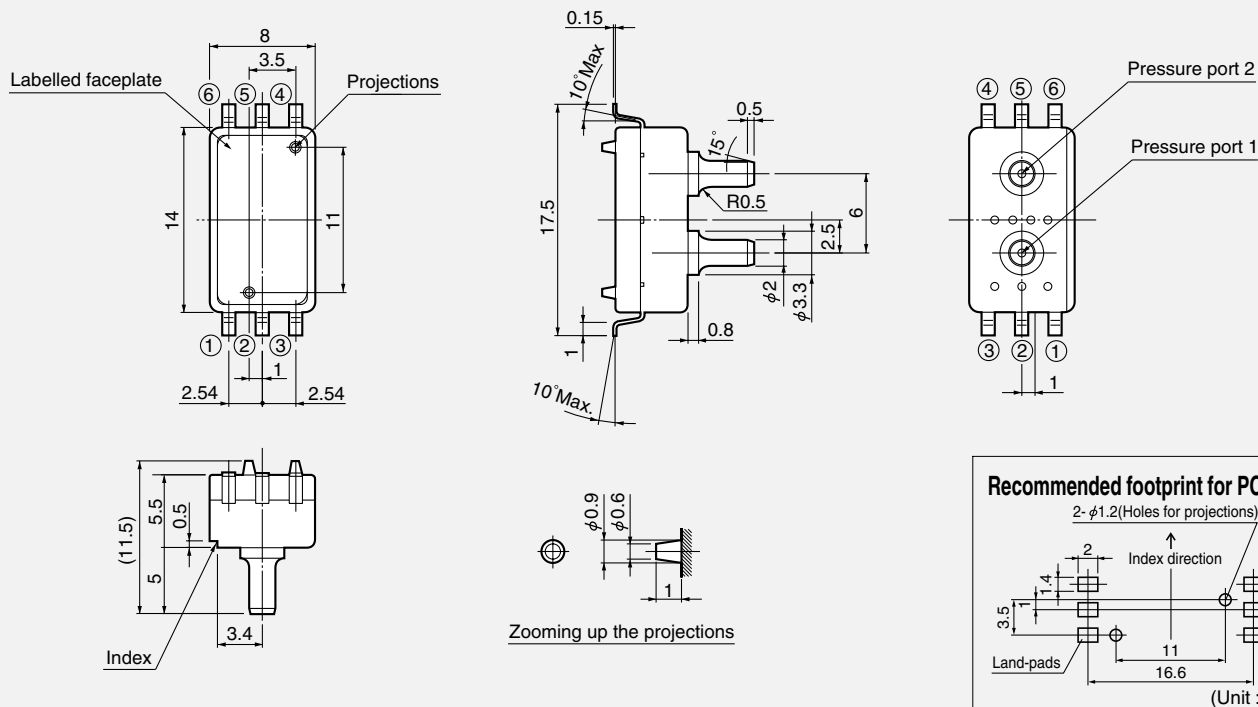
Note ; ※1) Output refers to pressure at pressure port 2.

※2) Excluding input voltage error.

## Outline dimensions

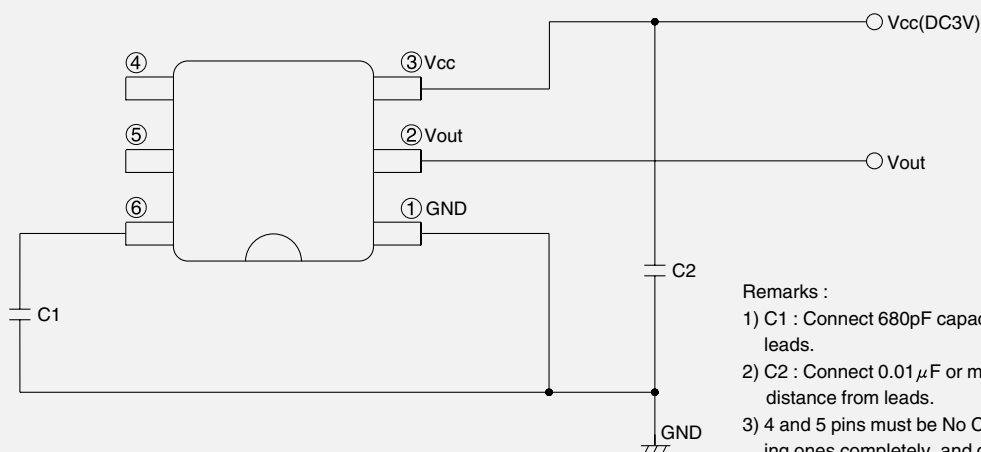
Unit : mm

### X3DM



## Connection diagram

### X3DM



#### Remarks :

- 1) C1 : Connect 680pF capacitor within 2cm distance from leads.
- 2) C2 : Connect 0.01μF or more capacitor within 2cm distance from leads.
- 3) 4 and 5 pins must be No Connection. Open them as floating ones completely, and do NOT connect to other line or each other.

Note ; Please read instruction "Notes" before using the sensor.  
Fujikura reserves the right to change specifications without notice.

# Fujikura Ltd.

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